



US 20190296506A1

(19) **United States**(12) **Patent Application Publication**
McQueen et al.(10) **Pub. No.: US 2019/0296506 A1**(43) **Pub. Date: Sep. 26, 2019**(54) **MODULAR WALL UNIT SYSTEM****H01R 13/46** (2006.01)**H04L 12/28** (2006.01)(71) Applicant: **Apple Inc.**, Cupertino, CA (US)(52) **U.S. Cl.**(72) Inventors: **Travis McQueen**, San Jose, CA (US);
Clark Della Silva, San Francisco, CA
(US); **Scott G. Johnston**, Los Gatos,
CA (US); **Wade Barnett**, San Jose, CA
(US); **Trevor McQueen**, Palo Alto, CA
(US)CPC **H01R 25/006** (2013.01); **H01R 31/065**
(2013.01); **H01R 24/525** (2013.01); **H04L**
2012/2841 (2013.01); **H04L 12/2812**
(2013.01); **H04L 12/2827** (2013.01); **H01R**
13/46 (2013.01)(73) Assignee: **Apple Inc.**, Cupertino, CA (US)(21) Appl. No.: **16/358,497**(22) Filed: **Mar. 19, 2019****Related U.S. Application Data**(60) Provisional application No. 62/647,550, filed on Mar.
23, 2018.**Publication Classification**(51) **Int. Cl.****H01R 25/00** (2006.01)**H01R 31/06** (2006.01)**H01R 24/52** (2006.01)

(57)

ABSTRACT

A modular host system may include one or more processors and a host unit installed in a support structure of a building. The host unit can be configured to receive and house an accessory (e.g., modular accessory) and electrically couple to an electrical source. The host unit can include a power gating module configured to couple electrical power from the electrical source to the accessory, and a communication module configured to communicate with one or more additional host units installed in the building. The one or more processors may be configured to determine a distance between the host unit and each of the one or more additional host units based on the communication with the one or more additional host units, and determine a floor plan of the building based at least on a distance from the host unit to each the one or more additional host units.

